

Title (en)  
Variable valve mechanism

Title (de)  
Variabler Ventilmeehanismus

Title (fr)  
Mécanisme de soupape variable

Publication  
**EP 2662540 A1 20131113 (EN)**

Application  
**EP 13164050 A 20130417**

Priority  
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Abstract (en)  
The present invention provides a variable valve mechanism for an internal combustion engine which includes an input arm, an output arm, a switching pin, and a displacing device. The displacing device includes a pressing device that presses the switching pin from any one of the coupling position and the non-coupling position to the other one of them, a return spring, and a stopper mechanism. The return spring is provided outside of the input arm and the output arm so as to act on one end of the switching pin, which is exposed from the input arm and the output arm. The stopper mechanism includes a displacement restricting groove that is provided on an outer periphery of the switching pin, and a lock member that is engaged with the displacement restricting groove and contacts one end of the displacement restricting groove when the switching pin is stopped at the non-coupling position.

IPC 8 full level  
**F01L 1/18** (2006.01); **F01L 13/00** (2006.01)

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**F01L 1/185** (2013.01 - EP US); **F01L 1/34** (2013.01 - US); **F01L 13/0005** (2013.01 - EP US); **F01L 13/0036** (2013.01 - EP US); **F01L 1/2405** (2013.01 - EP US); **F01L 2001/186** (2013.01 - EP US); **F01L 2305/00** (2020.05 - EP US)

Citation (applicant)  
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• [A] US 2004237919 A1 20041202 - HAAS MICHAEL [DE], et al  
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